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Page 1 of

#8

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/753,143

DATE: 12/20/2001

TIME: 12:41:26

Input Set : N:\Crf3\RULE60\09753143.txt
Output Set: N:\CRF3\12202001\I753143.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

- 5 (i) APPLICANT: NATHAN A. ELLIS, JAMES GERMAN, AND JOANNA
GRODEN
8 (ii) TITLE OF INVENTION: METHODS FOR DIAGNOSIS AND TREATMENT
OF BLOOM'S SYNDROME
11 (iii) NUMBER OF SEQUENCES: 78
13 (iv) CORRESPONDENCE ADDRESS:
14 (A) ADDRESSEE: AMSTER, ROTHSTEIN & EBENSTEIN
15 (B) STREET: 90 PARK AVENUE
16 (C) CITY: NEW YORK
17 (D) STATE: NEW YORK
18 (E) COUNTRY: U.S.A.
19 (F) ZIP: 10016
21 (v) COMPUTER READABLE FORM:
22 (A) MEDIUM TYPE: 3.5 INCH 1.44 Mb STORAGE DISKETTE
23 (B) COMPUTER: IBM PC COMPATIBLE
24 (C) OPERATING SYSTEM: MS-DOS
25 (D) SOFTWARE: ASCII

ENTERED

- 27 (vi) CURRENT APPLICATION DATA:
28 (A) APPLICATION NUMBER: US/09/753,143
C--> 29 (B) FILING DATE: 02-Jan-2001

- 31 (vii) PRIOR APPLICATION DATA:
32 (A) APPLICATION NUMBER: 09/175,828
33 (B) FILING DATE: 1998-10-20

- 35 (viii) ATTORNEY/AGENT INFORMATION:
36 (A) NAME: ELIZABETH A. BOGOSIAN
37 (B) REGISTRATION NUMBER: 39,911
38 (C) REFERENCE/DOCKET NUMBER: 63475/65

- 40 (ix) TELECOMMUNICATION INFORMATION:
41 (A) TELEPHONE: (212) 697-5995
42 (B) TELEFAX: (212) 286-0854 or 286-0082
43 (C) TELEX: TWX 710-581-4766

45 (2) INFORMATION FOR SEQ ID NO: 1:

- 47 (i) SEQUENCE CHARACTERISTICS:
48 (A) LENGTH: 19
49 (B) TYPE: NUCLEIC ACID
50 (C) STRANDEDNESS: SINGLE
51 (D) TOPOLOGY: LINEAR

W--> 53 (ii) MOLECULE TYPE:

- 54 (A) DESCRIPTION: OTHER NUCLEIC ACID
56 (iii) HYPOTHETICAL: YES
58 (iv) ANTI-SENSE: NO
60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
62 GGTGGCGACG ACTCCTGGA 19

65 (2) INFORMATION FOR SEQ ID NO: 2:

- 67 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/753,143

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68 (A) LENGTH: 19
69 (B) TYPE: NUCLEIC ACID
70 (C) STRANDEDNESS: SINGLE
71 (D) TOPOLOGY: LINEAR
W--> 73 (ii) MOLECULE TYPE:
74 (A) DESCRIPTION: OTHER NUCLEIC ACID
76 (iii) HYPOTHETICAL: YES
78 (iv) ANTI-SENSE: NO
80 (ix) FEATURE:
81 (A) NAME/KEY:
82 (B) LOCATION:
83 (C) IDENTIFICATION METHOD:
84 (D) OTHER INFORMATION:
86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
88 ACCAGACCAA CTGGTAATG 19
91 (2) INFORMATION FOR SEQ ID NO: 3:
93 (i) SEQUENCE CHARACTERISTICS:
94 (A) LENGTH: 20
95 (B) TYPE: NUCLEIC ACID
96 (C) STRANDEDNESS: SINGLE
97 (D) TOPOLOGY: LINEAR
W--> 99 (ii) MOLECULE TYPE:
100 (A) DESCRIPTION: OTHER NUCLEIC ACID
102 (iii) HYPOTHETICAL: YES
104 (iv) ANTI-SENSE: NO
106 (ix) FEATURE:
107 (A) NAME/KEY:
108 (B) LOCATION:
109 (C) IDENTIFICATION METHOD:
110 (D) OTHER INFORMATION:
112 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
114 ATGGTAGCGA CCGGCGCTCA 20
117 (2) INFORMATION FOR SEQ ID NO: 4:
119 (i) SEQUENCE CHARACTERISTICS:
120 (A) LENGTH: 20
121 (B) TYPE: NUCLEIC ACID
122 (C) STRANDEDNESS: SINGLE
123 (D) TOPOLOGY: LINEAR
W--> 125 (ii) MOLECULE TYPE:
126 (A) DESCRIPTION: OTHER NUCLEIC ACID
128 (iii) HYPOTHETICAL: YES
130 (iv) ANTI-SENSE: NO
132 (ix) FEATURE:
133 (A) NAME/KEY:
134 (B) LOCATION:
135 (C) IDENTIFICATION METHOD:
136 (D) OTHER INFORMATION:
138 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
140 CCGTCAGTAT CGGCAGGAATT 20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/753,143

DATE: 12/20/2001
TIME: 12:41:26

Input Set : N:\Crf3\RULE60\09753143.txt
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143 (2) INFORMATION FOR SEQ ID NO: 5:
145 (i) SEQUENCE CHARACTERISTICS:
146 (A) LENGTH: 21
147 (B) TYPE: NUCLEIC ACID
148 (C) STRANDEDNESS: SINGLE
149 (D) TOPOLOGY: LINEAR
W--> 151 (ii) MOLECULE TYPE:
152 (A) DESCRIPTION: OTHER NUCLEIC ACID
154 (iii) HYPOTHETICAL: YES
156 (iv) ANTI-SENSE: NO
158 (ix) FEATURE:
159 (A) NAME/KEY:
160 (B) LOCATION:
161 (C) IDENTIFICATION METHOD:
162 (D) OTHER INFORMATION:
164 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
166 TTGTGGTGTT GGGTAGAGGT T 21
169 (2) INFORMATION FOR SEQ ID NO: 6:
171 (i) SEQUENCE CHARACTERISTICS:
172 (A) LENGTH: 15
173 (B) TYPE: NUCLEIC ACID
174 (C) STRANDEDNESS: SINGLE
175 (D) TOPOLOGY: LINEAR
W--> 177 (ii) MOLECULE TYPE:
178 (A) DESCRIPTION: OTHER NUCLEIC ACID
180 (iii) HYPOTHETICAL: YES
182 (iv) ANTI-SENSE: NO
184 (ix) FEATURE:
185 (A) NAME/KEY:
186 (B) LOCATION:
187 (C) IDENTIFICATION METHOD:
188 (D) OTHER INFORMATION:
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
192 GCCGCCGGCA CCAAC 15
195 (2) INFORMATION FOR SEQ ID NO: 7:
197 (i) SEQUENCE CHARACTERISTICS:
198 (A) LENGTH: 22
199 (B) TYPE: NUCLEIC ACID
200 (C) STRANDEDNESS: SINGLE
201 (D) TOPOLOGY: LINEAR
W--> 203 (ii) MOLECULE TYPE:
204 (A) DESCRIPTION: OTHER NUCLEIC ACID
206 (iii) HYPOTHETICAL: YES
208 (iv) ANTI-SENSE: NO
210 (ix) FEATURE:
211 (A) NAME/KEY:
212 (B) LOCATION:
213 (C) IDENTIFICATION METHOD:
214 (D) OTHER INFORMATION:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/753,143

DATE: 12/20/2001
TIME: 12:41:26

Input Set : N:\Crf3\RULE60\09753143.txt
Output Set: N:\CRF3\12202001\I753143.raw

216 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
218 CCTCAGTCAA ATCTATNTGC TC 22
221 (2) INFORMATION FOR SEQ ID NO: 8:
223 (i) SEQUENCE CHARACTERISTICS:
224 (A) LENGTH: 23
225 (B) TYPE: NUCLEIC ACID
226 (C) STRANDEDNESS: SINGLE
227 (D) TOPOLOGY: LINEAR
W--> 229 (ii) MOLECULE TYPE:
230 (A) DESCRIPTION: OTHER NUCLEIC ACID
232 (iii) HYPOTHETICAL: YES
234 (iv) ANTI-SENSE: NO
236 (ix) FEATURE:
237 (A) NAME/KEY:
238 (B) LOCATION:
239 (C) IDENTIFICATION METHOD:
240 (D) OTHER INFORMATION:
242 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
244 GCCATCACCG GAACAGAAGG AAA 23
247 (2) INFORMATION FOR SEQ ID NO: 9:
249 (i) SEQUENCE CHARACTERISTICS:
250 (A) LENGTH: 22
251 (B) TYPE: NUCLEIC ACID
252 (C) STRANDEDNESS: SINGLE
253 (D) TOPOLOGY: LINEAR
W--> 255 (ii) MOLECULE TYPE:
256 (A) DESCRIPTION: OTHER NUCLEIC ACID
258 (iii) HYPOTHETICAL: YES
260 (iv) ANTI-SENSE: NO
262 (ix) FEATURE:
263 (A) NAME/KEY:
264 (B) LOCATION:
265 (C) IDENTIFICATION METHOD:
266 (D) OTHER INFORMATION:
268 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
270 TCTTCTGGAG GAGGTGGAAC AA 22
273 (2) INFORMATION FOR SEQ ID NO: 10:
275 (i) SEQUENCE CHARACTERISTICS:
276 (A) LENGTH: 19
277 (B) TYPE: NUCLEIC ACID
278 (C) STRANDEDNESS: SINGLE
279 (D) TOPOLOGY: LINEAR
W--> 281 (ii) MOLECULE TYPE:
282 (A) DESCRIPTION: OTHER NUCLEIC ACID
284 (iii) HYPOTHETICAL: YES
286 (iv) ANTI-SENSE: NO
288 (ix) FEATURE:
289 (A) NAME/KEY:
290 (B) LOCATION:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/753,143

DATE: 12/20/2001
TIME: 12:41:26

Input Set : N:\Crf3\RULE60\09753143.txt
Output Set: N:\CRF3\12202001\I753143.raw

291 (C) IDENTIFICATION METHOD:
292 (D) OTHER INFORMATION:
294 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
296 GGATCCTGGT TCCGTCCGC 19
299 (2) INFORMATION FOR SEQ ID NO: 11:
301 (i) SEQUENCE CHARACTERISTICS:
302 (A) LENGTH: 21
303 (B) TYPE: NUCLEIC ACID
304 (C) STRANDEDNESS: SINGLE
305 (D) TOPOLOGY: LINEAR
W--> 307 (ii) MOLECULE TYPE:
308 (A) DESCRIPTION: OTHER NUCLEIC ACID
310 (iii) HYPOTHETICAL: YES
312 (iv) ANTI-SENSE: NO
314 (ix) FEATURE:
315 (A) NAME/KEY:
316 (B) LOCATION:
317 (C) IDENTIFICATION METHOD:
318 (D) OTHER INFORMATION:
320 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
322 CAACTAGAAC GTCACTCAGC C 21
325 (2) INFORMATION FOR SEQ ID NO: 12:
327 (i) SEQUENCE CHARACTERISTICS:
328 (A) LENGTH: 22
329 (B) TYPE: NUCLEIC ACID
330 (C) STRANDEDNESS: SINGLE
331 (D) TOPOLOGY: LINEAR
W--> 333 (ii) MOLECULE TYPE:
334 (A) DESCRIPTION: OTHER NUCLEIC ACID
336 (iii) HYPOTHETICAL: YES
338 (iv) ANTI-SENSE: NO
340 (ix) FEATURE:
341 (A) NAME/KEY:
342 (B) LOCATION:
343 (C) IDENTIFICATION METHOD:
344 (D) OTHER INFORMATION:
346 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
348 GACTTTTCCT TCAGTGAAACC TC 22
351 (2) INFORMATION FOR SEQ ID NO: 13:
353 (i) SEQUENCE CHARACTERISTICS:
354 (A) LENGTH: 21
355 (B) TYPE: NUCLEIC ACID
356 (C) STRANDEDNESS: SINGLE
357 (D) TOPOLOGY: LINEAR
W--> 359 (ii) MOLECULE TYPE:
360 (A) DESCRIPTION: OTHER NUCLEIC ACID
362 (iii) HYPOTHETICAL: YES
364 (iv) ANTI-SENSE: NO
366 (ix) FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/753,143

DATE: 12/20/2001

TIME: 12:41:27

Input Set : N:\Crf3\RULE60\09753143.txt
 Output Set: N:\CRF3\12202001\I753143.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
 L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
 L:53 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
 L:73 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
 L:99 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
 L:125 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
 L:151 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
 L:177 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
 L:203 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
 L:229 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
 L:255 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
 L:281 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10
 L:307 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
 L:333 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
 L:359 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
 L:385 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
 L:412 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
 L:439 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
 L:465 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17
 L:490 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=18
 L:515 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19
 L:540 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20
 L:566 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21
 L:591 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22
 L:617 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23
 L:643 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24
 L:670 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
 L:695 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26
 L:721 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27
 L:747 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28
 L:773 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
 L:799 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
 L:825 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31
 L:851 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32
 L:877 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33
 L:903 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34
 L:929 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35
 L:955 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36
 L:981 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37
 L:1008 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=38
 L:1034 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39
 L:1060 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40
 L:1086 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41
 L:1112 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42
 L:1138 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43
 L:1164 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=44
 L:1190 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=45
 L:1216 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=46

VERIFICATION SUMMARY

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L:1242 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=47
L:1268 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=48
L:1294 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=49
L:1320 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=50